

**DECLARATION AND POWER OF ATTORNEY- USA PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **HOLLOW INORGANIC MEMBRANES PRODUCED BY METAL OF COMPOSITION ELECTRODEPOSITION**; the specification of which was filed on **January 16, 2002** as Application Serial No. **10/053,241**.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above;

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56;

**POWER OF ATTORNEY:** I hereby appoint the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone (949) 760-0404, **Customer No. 20,995**.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole inventor: **Dr. Partho Sarkar**

Inventor's signature

*Partho Sarkar*

Date

*May 31/2002*

Residence: **#34-3221-119th Street, Edmonton, Alberta, CANADA T6J 5K7**

Citizenship: **Canadian**

Post Office Address: **same as above**

Send Correspondence To:  
**KNOBBE, MARTENS, OLSON & BEAR, LLP**  
**Customer No. 20,995**

GOWLVAN1.001AUS



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Sarkar )  
App. No. : 10/053,241 )  
Filed : January 16, 2002 )  
For : HOLLOW INORGANIC )  
MEMBRANES PRODUCED BY )  
METAL OF COMPOSITION )  
ELECTRODEPOSITION )  
Examiner : Unknown )

**ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION**  
**AND**  
**REVOCATION AND POWER OF ATTORNEY**

United States Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor(s) to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventor(s) to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone

**App. No.** : 10/653,241  
**Filed** : January 16, 2002

(949) 760-0404, **Customer No. 20,995**, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

Alberta Research Council, Inc.

Dated: May 31/02

By: Keith Salmon  
Name: Keith Salmon

Title: Chief Financial Officer

Address: 250 Karl Clark Road  
Edmonton, Alberta  
CANADA T6N 1E4

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Application No.: 10/053,241  
Filing Date: January 16, 2002

**COPY**  
**D N t Record**

**PATENT**  
Client Code: GOWLVAN1.001AUS  
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**ASSIGNMENT**

WHEREAS, I, Dr. Partho Sarkar, a Canadian citizen, residing at #34-3221-119th Street, Edmonton, Alberta, CANADA T6J 5K7, have invented certain new and useful improvements in a HOLLOW INORGANIC MEMBRANES PRODUCED BY METAL OF COMPOSITION ELECTRODEPOSITION for which I have filed an application for Letters Patent in the United States, 10/053,241;

AND WHEREAS, Alberta Research Council, Inc. (hereinafter "ASSIGNEE"), a Canadian Corporation, with its principal place of business at 250 Karl Clark Road, Edmonton, Alberta, CANADA T6N 1E4, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

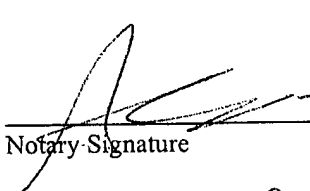
NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 31 day of May, 2002



Dr. Partho Sarkar

  
Notary Signature

Anne L.G. Cote

Notary Public - Province of Alberta